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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/823,200

04/12/2004

Robert Dean King

RD-26,118-15

4059

7590

09/22/2005

General Electric Company
CRD Patent Docket Rm 4A59
Bldg. K1
P.O. Box 8
Schenectady, NY 12301

RECEIVED
OIPE/AP
SEP 29 2005

EXAMINER

TIBBITS, PIA FLORENCE

ART UNIT

PAPER NUMBER

2838

DATE MAILED: 09/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/823,200

Applicant(s)

KING, ROBERT DEAN

Examiner

Pia F. Tibbits

Art Unit

2838

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 April 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3,6,8 and 10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3,6,8 and 10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 4/12/2004.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION***Specification***

1. The disclosure is objected to because of the following informalities: the specification fails to make reference to the parent application, and MPEP clearly states "Except for a continued prosecution application filed under § 1.53(d), any nonprovisional application claiming the benefit of one or more prior-filed copending nonprovisional applications or international applications designating the United States of America must contain or be amended to contain a reference to each such prior-filed application, identifying it by application number (consisting of the series code and serial number) or international application number and international filing date and indicating the relationship of the applications. Cross references to other related applications may be made when appropriate (see § 1.14). See 37 CFR 1.78.

Appropriate correction is required.

Double Patenting

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 1-3,6,8, 10 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-22 of **U.S. Patent No. 6331365** in view of prior art disclosed by applicant, **Endo et al.** [4056764]. Although the conflicting claims are not identical, they are not patentably distinct from each other because they both describe a hybrid battery arrangement for an electrically powered system in which battery loading is subject to intermittent high power loading, the system including a hybrid battery coupled to supply electric power via a DC link to a load and a control

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system for controlling application of power to the load, the hybrid battery arrangement comprising: a first battery coupled to the DC link, the first battery comprising an electrically rechargeable battery; a second battery coupled to the DC link, the first battery having higher energy and lower power densities than the second battery; and a boost converter, coupled in circuit between the first battery and the second battery for selectively boosting the voltage from the first battery.

U.S. Patent No. 6331365 does not recite a nickel cadmium battery.

Endo discloses a "power battery" could be an alkaline storage battery such as a nickel-cadmium battery characterized by its great output or ability of delivering relatively high currents [see column 1, lines 19-36]. Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify (U.S. Patent No. 6331365)'s apparatus and include a nickel-cadmium as a power battery, as disclosed by Endo, in order to provide great output or ability of delivering relatively high currents.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art cited in PTO-892 and not mentioned above disclose related apparatus.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Pia Tibbits whose telephone number is 571-272-2086. If unavailable, contact the Supervisory Patent Examiner Mike Sherry whose telephone number is 571-272-2084. The Technology Center Fax number is 571-273-8300.

6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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PFT

September 8, 2005

Pia Tibbits

Primary Patent Examiner

A handwritten signature in black ink, appearing to be 'Pia Tibbits', written over the printed name and title.

PTO 1449 - CONTINUING APPLICATION

Sheet 1 of 1

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
RD-26,118-15

SERIAL NO.

10/823200

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
LIST OF ITEMSApplicant
ROBERT DEAN KING

Filing Date

Group

2838


U.S. PATENT DOCUMENTS CITED BY APPLICANTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
P	A1	4,056,764	11/1/77	ENDO, ET AL		
	A2	5,373,195	12/13/94	DE DONCKER, ET AL		
	A3	5,659,240	8/19/97	KING		
	A4	5,710,699	1/20/98	KING, ET AL		
	A5	5,780,980	7/14/98	NAITO		
	A6	6,331,365	12/18/01	KING		
	A7					
	A8					
	A9					

FOREIGN PATENT DOCUMENTS CITED BY APPLICANTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
P	B1	0424577	10/26/89	EPO		
	B2	2275378	8/24/94	GB		
	B3					
	B4					

OTHER INFORMATION CITED BY APPLICANTS (Including Author, Title, Date, Pertinent Pages, etc.)

	C1	GARRIGAN, ET AL, US PATENT APPLICATION ENTITLED "BI-DIRECTION POWER CONTROL SYSTEM FOR VOLTAGE CONVERTER", SER. NO. 09/094,285 FILED 6/9/98, (ATTORNEY DOCKET NO. RD-26,122), NOW US PATENT 5,903,449 ISSUED 5/11/99.
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U.S. PATENT DOCUMENTS CITED BY EXAMINER ON PTO-892 IN THE PARENT APPLICATION

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
P	D1	3,899,041	8/75	MAGER		
	D2	4,025,860	5/77	SHIBATA, ET AL		
	D3	4,066,936	1/78	HIROTA		
	D4	5,196,275	3/93	GOLDMAN, ET AL		
	D5	5,237,258	8/93	CRAMPTON		
	D6	5,291,106	3/94	MURTY, ET AL		
	D7	5,592,067	1/97	PETER, ET AL		
	D8	5,847,533	12/98	HAKALA, ET AL		
	D9	5,898,282	4/99	DROZDZ, ET AL		
	D10	5,995,396	11/99	BRYNE, ET AL		
	D11	5,998,885	12/99	TAMOR, ET AL		
	D12	5,998,960	12/99	YAMADA, ET AL		
	D10	6,031,294	2/00	GEIS, ET AL		
	D11	6,321,145	11/01	RAJASHEKARA		

EXAMINER

DATE CONSIDERED

9/8/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

Notice of References Cited	Application/Control No. 10/823,200	Applicant(s)/Patent Under Reexamination KING, ROBERT DEAN	
	Examiner Pia F. Tibbits	Art Unit 2838	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-6,331,365	12-2001	King, Robert Dean	429/9
	B	US-5,883,496	03-1999	Esaki et al.	320/132
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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Jeffery D. G.

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